The following features are available in this PDF document.

Quick Keyword Search

Enter the keyword in the search box and hit the search button

Quick Jump between Chapters

Click the title of a specific chapter on the Contents to jump to it

*Reading software such as Adobe Reader is needed to support the functions above.

ZHIYUN-EN-v1.00

ZHIYUN

SMOOTH 5S AI

User Guide

Contents

☐ Product List

Product List · · · · · 1

☐ Get to Know SMOOTH 5S AI

Get to Know SMOOTH 5S AI · · · · · 3

☐ Get to Know AI Tracker

Get to Know AI Tracker · · · · · 4

☐ Battery and Charging

Battery and Charging · · · · · 5

☐ Mounting and Balancing

Mounting the Phone · · · · · 6

Installing the Fill Light · · · · · 8

Balancing · · · · · 9

☐ How to Use the Gimbal

Buttons/Indicator Lights/Ports Introduction · · · · · 10

AI Following Instructions · · · · · 14

Gimbal Modes Description · · · · · 17

Manual Reposition · · · · · 20

Standby Mode · · · · · 21

Packing · · · · · 21

☐ How to Use the App

Download the App · · · · · 22

How to Connect · · · · · 22

App Features Description · · · · · 23

☐ Firmware Upgrade and Calibration
Firmware Upgrade 24
Calibration 26

☐ Product Specifications

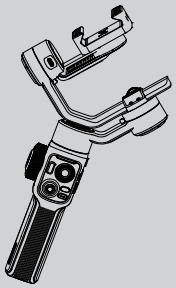
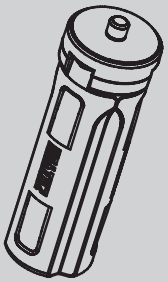
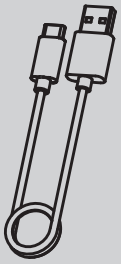
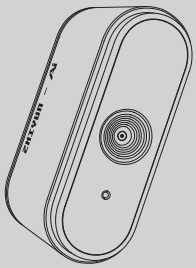
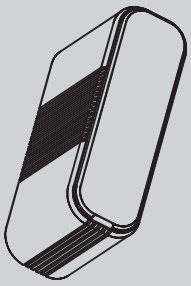
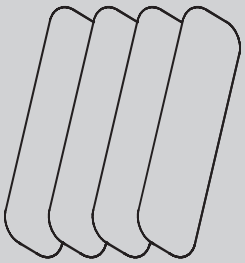
☐ Disclaimer and Warning
Reading Tips 31
Warnings 31
Safe Operation Guidelines 32

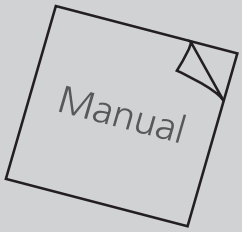
☐ Warranty Card
Warranty Period 34
Warranty Exclusions 34
Warranty Claim Procedure 34

☐ Contact Card

Product List

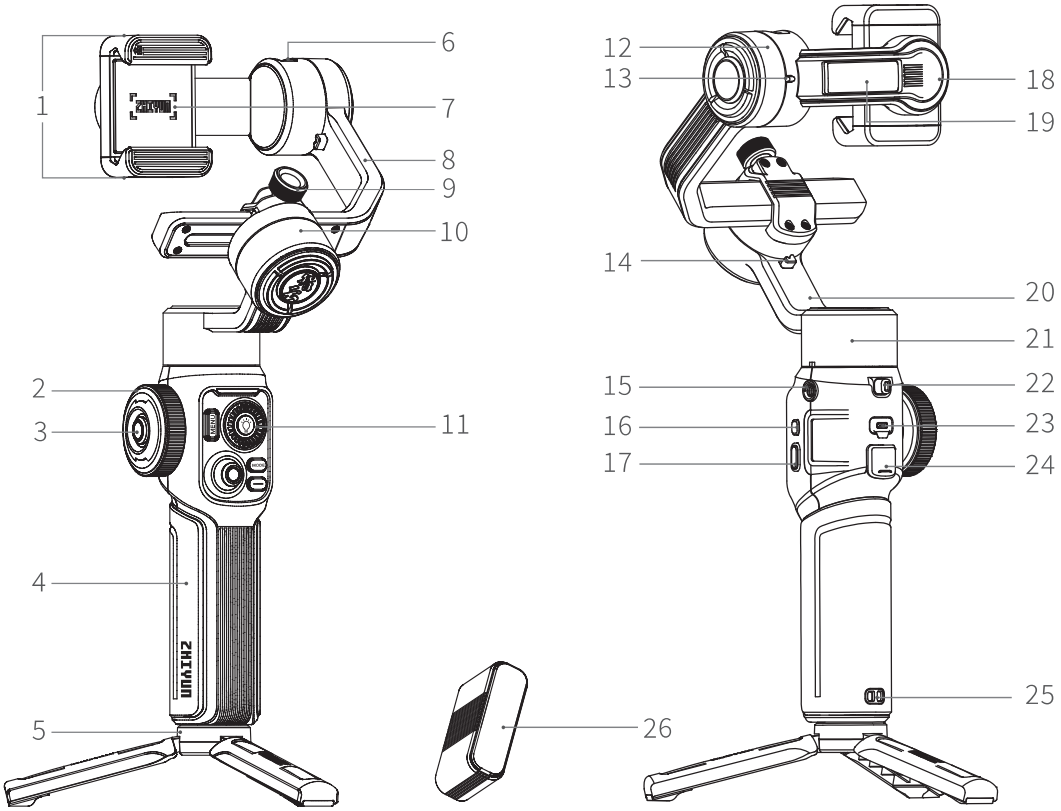
Before using this product, please check carefully that all the following items are included in the product package. In case that any item is found missing, please contact ZHIYUN or your local selling agent.

	
SMOOTH 5S AI x1	Tripod x1
	
USB Type-C Cable x1	Membership Card* x1
	
AI Tracker x1*	Fill Light** x1
	
Fill Light Filters** x4	Wrist Strap** x1

	
Protective Bag** x 1	Quick Start Guide x1

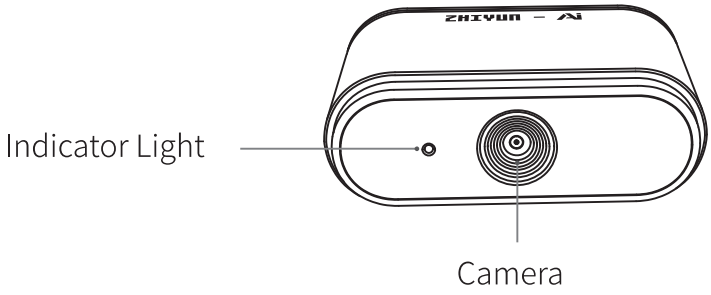
Items marked "*" are included in SMOOTH 5S AI COMBO
Items marked "**" are included in SMOOTH 5S AI PRO

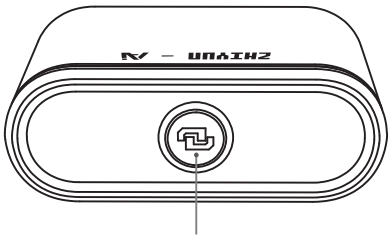
Get to Know SMOOTH 5S AI



1. Magnetic fill light/AI Tracker Slot
2. Focus/Zoom Control Wheel
3. Focus/Zoom Switch
4. Handle
5. Tripod
6. Mobile Phone Charging Port
7. Phone Clamp
8. Roll Axis Arm
9. Roll Axis Clamp Knob
10. Roll Axis Motor
11. Indicator Lights/Control Panel
12. Tilt Axis Motor
13. Tilt Axis Lock Pin
14. Roll Axis Lock Pin
15. 1/4" Threaded Hole
16. Power Button
17. FN Button
18. Phone Clamp Rotate Axis
19. Tilt Axis Built-in Fill Light
20. Pan Axis Arm
21. Pan Axis Motor
22. Pan Axis Latch
23. Type-C Charging/Firmware Upgrade Port
24. Trigger Button
25. Wrist Strap Hole
26. Magnetic Fill Light

Get to Know AI Tracker





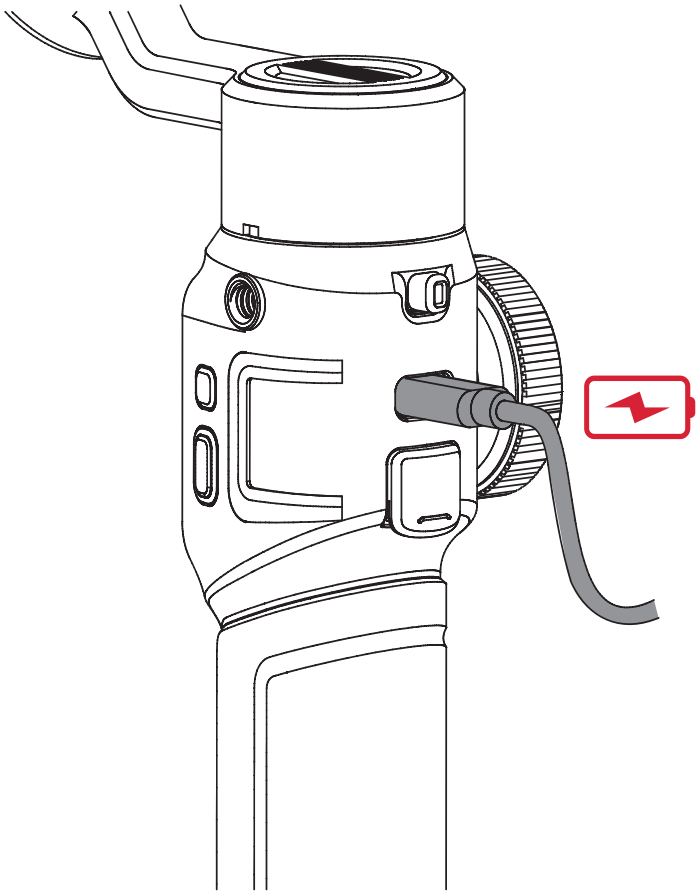
Sleep/Wake Button (AI Tracker)

Single press: Wake the AI tracker up from the low power mode

Long press: AI tracker enter sleep mode

Battery and Charging

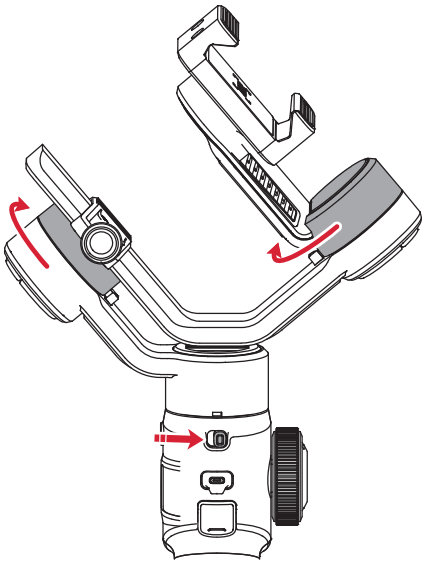
SMOOTH 5S AI is equipped with built-in battery. When using SMOOTH 5S AI for the first time, please fully charge the battery to activate them and to ensure the proper function of the gimbal.
Charging method: Use provided USB Type-C cable to connect the USB charger (supports 14W PD charging at most) to the charging port of SMOOTH 5S AI. When the indicator light stays solid, the charging is complete.

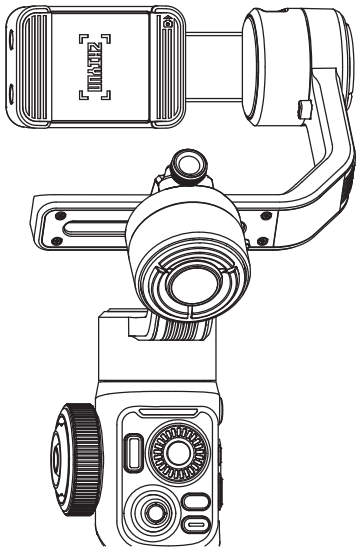


Please power off SMOOTH 5S AI to charge.

Mounting the Phone

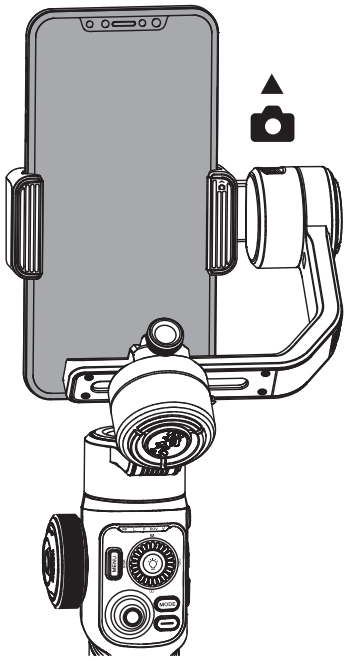
1. Unlock the tilt axis, roll axis, and pan axis, expand the SMOOTH 5S AI.



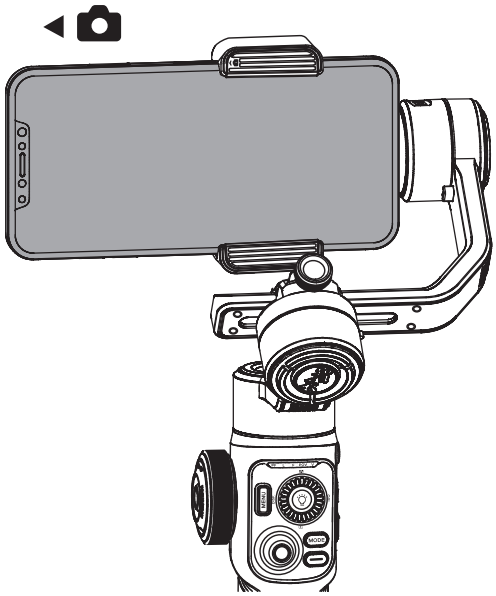


⚠ When using, please rotate in the correct direction as shown in the image to prevent the lock pin from damaging.

2. Mount the mobile phone onto the phone clamp. You can mount the phone in portrait mode or landscape mode according to the actual filming scenario.



Portrait Mode Installation

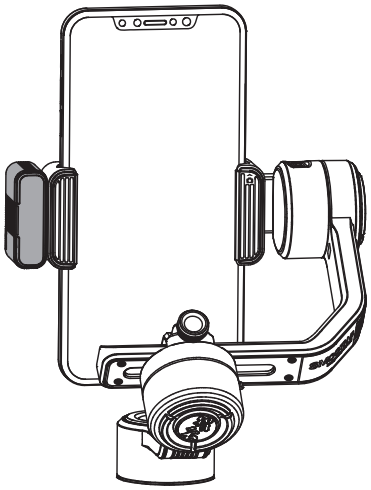


Landscape Mode Installation

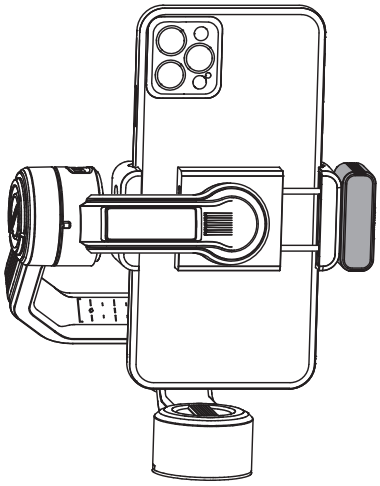
1. Rotate the phone clamp to switch between portrait/landscape mode. When using, please rotate in the correct direction.
2. When mounting the mobile phone, please note the installation direction of the phone cameras as shown in the image.
3. When mounting the mobile phone, please make sure that the entire mobile phone is fixed in the phone clamp firmly.
4. Before powering on SMOOTH 5S AI, please mount the mobile phone and balance the gimbal.

Installing the Fill Light

If you purchase SMOOTH 5S AI Combo, the package will come with the magnetic fill light. Install the magnetic fill light at the front or rear camera according to the actual filming scenario and make sure a firm installation.

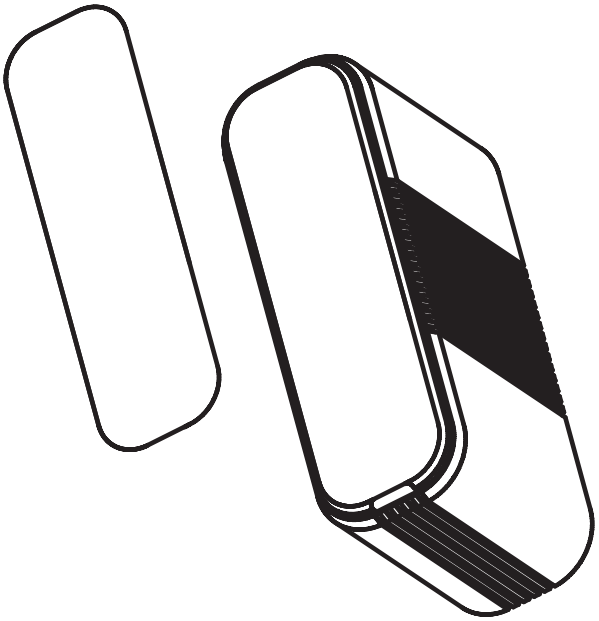


Fill Light at Front Camera



Fill Light at Rear Camera

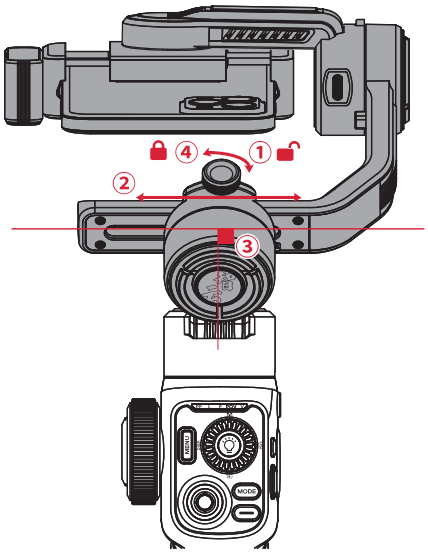
You can change the fill light filter according to the actual filming scenario. When using the fill light, please avoid staring directly at the light.



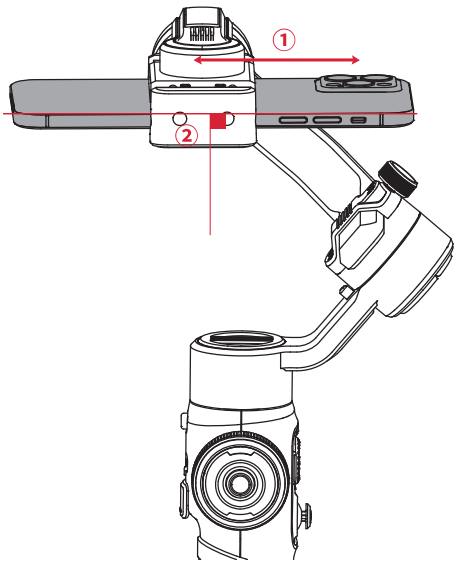
Balancing

Mounting in the portrait mode

1. Unlock the roll axis arm ① , push the arm to move left or right ② until the phone is steady and is at almost level with the ground ③ . Tighten the roll axis clamp knob ④ .

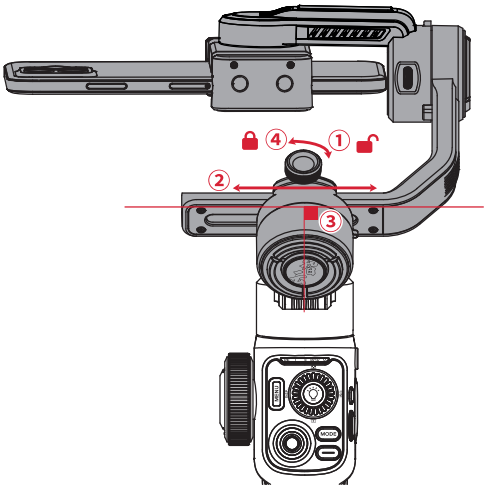


2. Move the mobile phone left or right ① until the phone is steady and is at almost level with the ground ② .

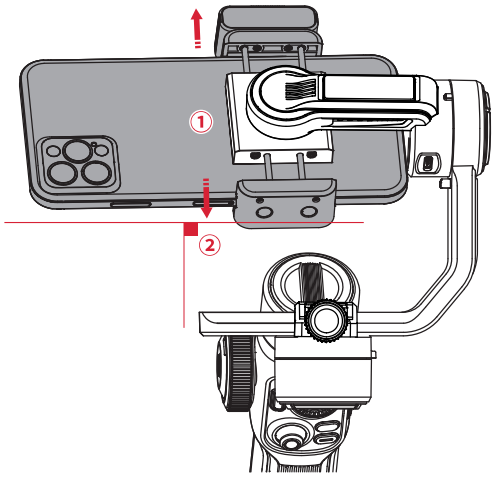


Mounting in the landscape mode

1. Unlock the roll axis arm ① , push the arm to move left or right ② until the phone is steady and is at almost level with the ground ③ . Tighten the roll axis clamp knob ④ .

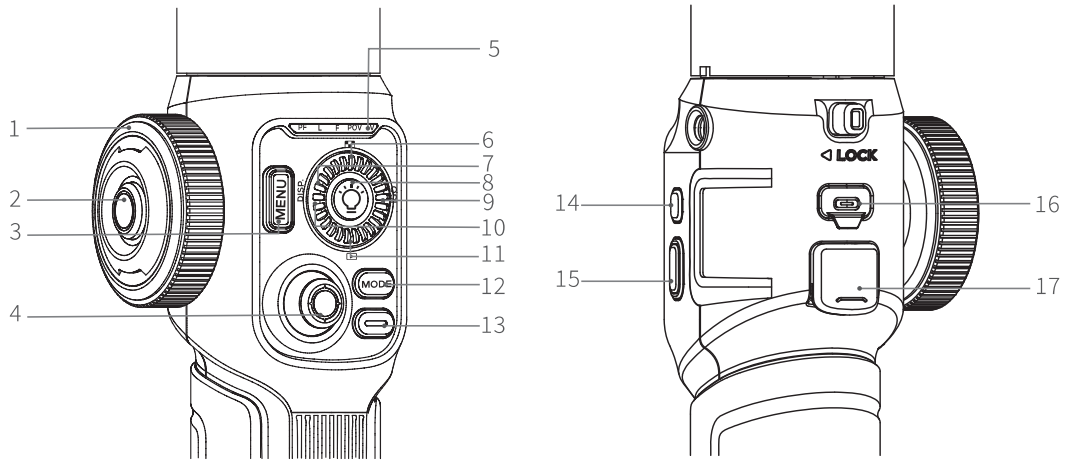


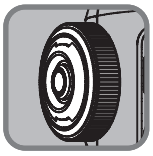
2. Move the phone clamp forward or backward ① until the phone is steady and is at almost level with the ground ② .



The balance state of the mobile phone will affect the gimbal runtime. The gimbal can work normally if unbalanced, but it will consume more battery power and weaken the motor strength.

Buttons/Indicator Lights/Ports Introduction



1 

Focus/Zoom Control Wheel
Rotate the wheel to control focus/zoom in StaCam app.
Rotate the wheel to control zoom in ZY Cami app.

2

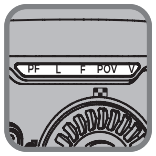
Focus/Zoom Switch
Single press: Switch between focus/zoom in StaCam app.

3

MENU Button
Single press:
Enter the SMART menu in the ZY Cami app/Return to the shooting interface from the settings menu.
Press to return to the filming interface in StaCam app.

4

Joystick
Push the joystick up/down/left/right to control the gimbal to rotate.

5 

Gimbal Mode/Battery Level/Status Indicator Light

Gimbal Mode: Indicator light of each mode stays on to indicate the current mode. (F light flashes indicating the Go mode)
Battery Level (single press the gimbal power button when powered on): flashing red PF light indicates low battery.
One flashing white indicator light: 0-20% battery level.
Two flashing white indicator lights: 20%-40%
Three flashing white indicator lights: 40%-60%
Four flashing white indicator lights: 60%-80%
Five flashing white indicator lights: 80%-100%
Status: Five slow flashing light indicates standby.
Five quick flashing light indicates upgrade failure.
Five lights flashing one by one from left to right indicates that the upgrade is in progress.

6

Resolution Selection Button

Single press: Enters resolution adjustment interface in ZY Cami/StaCam app.

7

Adjustment Wheel

Rotate the wheel in certain menus in ZY Cami/StaCam app to select parameters/functions.

8

Fill Light Button

Single press: For confirming in certain menus of ZY Cami/StaCam app.
Double press: Start filming with the chosen mode in ZY Cami/StaCam app.
Press and hold: Power on/off magnetic fill light. (Rotate the adjustment wheel to control the brightness when powered on)

9

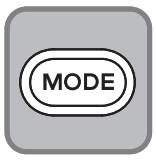
ISO/Exposure Adjustment Button
Single press: Disabled in ZY Cami app.
Switch among shutter, ISO and white balance in StaCam app.

10

DISP Button
Single press: Disabled in ZY Cami app.
Cycle through the display effects of the interface in the StaCam app

11

Photo Album Button
Single press: Open/close photo album in ZY Cami/StaCam app.

12 

Mode Switch
Single press: Switch gimbal modes（PF-L-F-POV-V）
Double press: Return to previous mode

13

Photo/Video Button
Single press: Start filming with the chosen mode in ZY Cami/ StaCam app.
Double press: Switch front/rear camera in ZY Cami.
Switch among wide-angle, super-wide-angle, telephoto, auto, front camera in StaCam app.

14

Power Button
Single press: See battery level
Press and hold: Power on/off the gimbal